

## Abstract

Described is a method for detecting acid stratification in a battery including the following steps:

- Determining a first state of charge value ( $SOC_1$ ) during a load period of the battery on the basis of an estimated open-circuit voltage,
- Determining a second state of charge value ( $SOC_2$ ) during a rest period of the battery following the load period on the basis of a measured open-circuit voltage,
- Comparing the first state of charge value ( $SOC_1$ ) to the second state of charge value ( $SOC_2$ ), and
- Detecting acid stratification when a defined deviation ( $\Delta SOC$ ) of the first state of charge value ( $SOC_1$ ) from the second state of charge value ( $SOC_2$ ) is exceeded.